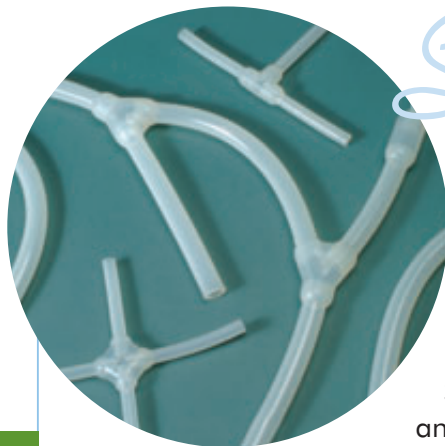


SINGLE-USE/DISPOSABLE BATCH FILL & SAMPLING ASSEMBLIES

FOR PHARMACEUTICAL & BIOTECH PROCESSING APPLICATIONS



TECH SHEET



Single-use/disposable assemblies eliminate lengthy production stoppages for sterilization between batch runs, and they simplify safety—use once and discard.

By combining platinum-cured, Class VI silicone tubing with molded fittings, stoppers and other components, a wide variety of manifold options are possible. Designs range from simple, single fitting connections to complex configurations with varying lengths of tubing and several molded connections.

Single-Use Assemblies are not intended for implantation and are not to be used for continuous steam applications.



KEY FEATURES



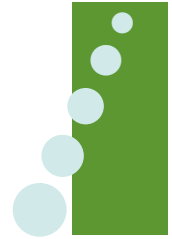
- Custom manufactured with Y's, T's, cross T's, reducers, mini and standard Tri-Clamps®, bottle stoppers and sealers, and tubing—many configurations are available
- Eliminates entrapment issues and leaks associated with barbed fittings
- Components are permanently bonded into one, single-use/disposable manifold
- Reduces the risk of cross contamination when used as part of an integrated contamination control strategy
- Results in a securely-closed system for a purer product
- Reduces regulatory risk by eliminating certain cleaning validation requirements
- Provides a smooth inner surface without seams or crevices for even, uninterrupted flow
- Reduces end-user assembly time—arrives ready to install
- Retains silicone's wide range of temperature resistance: -100°F to 400°F
- Tubing is extremely flexible and easy to handle
- Sterilizable by autoclave and gamma radiation processes
- Optional RFID tags easily attach to assemblies for identification purposes providing reliable electronic data storage and current status of assemblies from inception to disposal
- Imparts no taste or odor to critical streams
- White-room manufactured
- Sealed in clear polybags during manufacturing process to ensure cleanliness
- Documented lot traceable with identification on bags and boxes
- Documented quality control
- Experienced Pharmaceutical Process Engineers available for technical assistance
- **One material** contact surface throughout

SILICONE

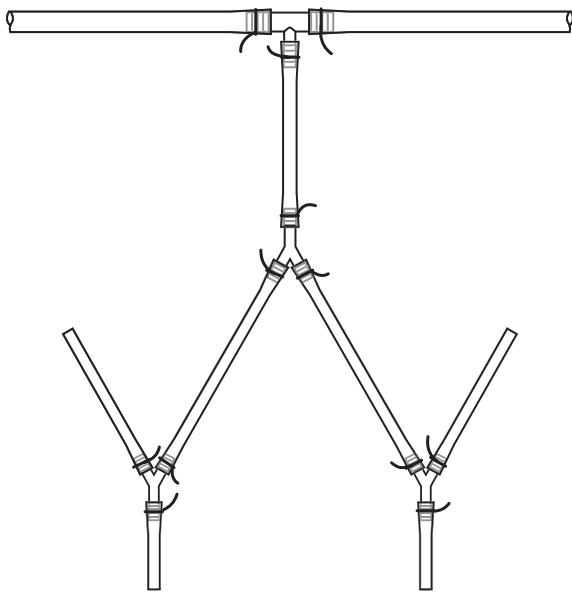
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SINGLE-USE/DISPOSABLE BATCH FILL & SAMPLING ASSEMBLIES

FOR PHARMACEUTICAL & BIOTECH PROCESSING APPLICATIONS

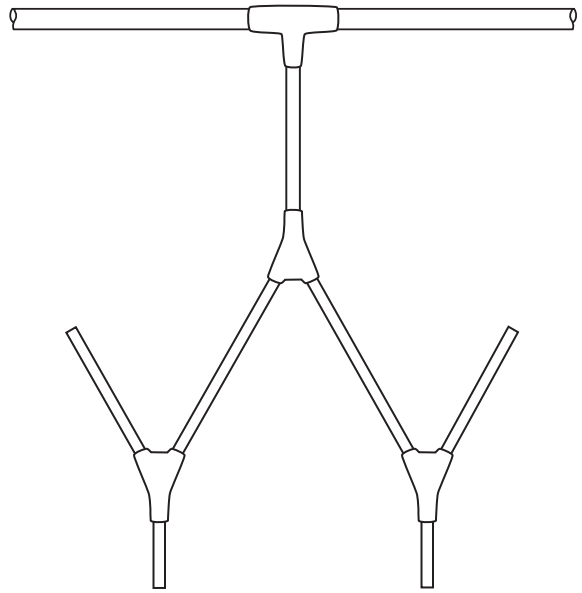


This example of a assembly made from tubing and barbed fittings is comprised of nine separate pieces of tubing of varying sizes and lengths, plus four fittings that require insertion into the tubing and secure attachment with tie wraps.



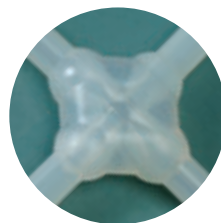
25 components

An AdvantaPure single-use assembly is a complete unit, packaged in a sealed polybag and ready for use. Leaks, entrapment, and contamination concerns involved with barbed fitting connections are eliminated. Labor and time to assemble the manifold is unnecessary.



1 component

SILICONE



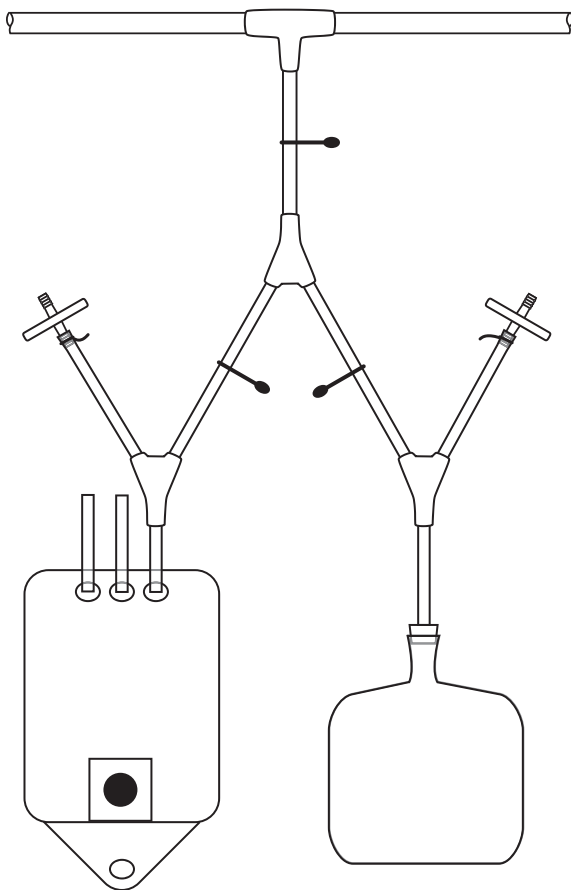
■ Select from a number of different crevice-free connections.

Phone: 215-526-2151 Toll Free Phone: 888-755-4370

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Experienced Pharmaceutical Process Engineers, with 20 years of knowledge in biotech and sterile manufacturing, are available for technical assistance.

Save even more time and labor by allowing the assembly technicians at AdvantaPure to attach other components such as filters, clamps, bags, stoppers, and RF identification tags. Gamma sterilization services of complete assemblies are also available.



■ Molded silicone Tri-Clamp® fittings with protective backing cups may be incorporated into filling assemblies.



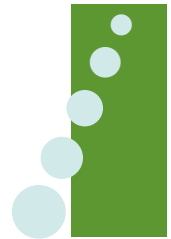
■ Bottle stoppers and container sealers, available with or without tubing inserts, are also manufactured from platinum-cured, Class VI silicone. They can easily become part of your manifold design for batch processing in carboys and other vessels.



SILICONE

SINGLE-USE/DISPOSABLE BATCH FILL & SAMPLING ASSEMBLIES

FOR PHARMACEUTICAL & BIOTECH PROCESSING APPLICATIONS



Silicone tubing is available from stock in nearly 90 sizes. It, too, is platinum cured and meets Class VI standards. Complete biocompatibility validation packages are available.

A sampling of popular sizes for pharmaceutical and biotech applications is listed below.



SPECIFICATIONS

Product Number	I.D.		Wall		O.D.		Standard Available Length (ft.)
	(in.)	(mm.)	(in.)	(mm.)	(in.) (reference)	(mm.)	
APST-0040-0086	.040	1.02	.023	.58	.086	2.18	25, 50, 100
APST-0063-0125	.063	1.59	.031	.79	.125	3.18	25, 50, 100
APST-0063-0188	.063	1.59	.063	1.59	.188	4.76	25, 50, 100
APST-0125-0250	.125	3.18	.063	1.59	.250	6.35	25, 50, 100
APST-0188-0313	.188	4.76	.063	1.59	.313	7.94	25, 50, 100
APST-0188-0375	.188	4.76	.094	2.38	.375	9.53	25, 50, 100
APST-0250-0375	.250	6.35	.063	1.59	.375	9.53	25, 50, 100
APST-0375-0625	.375	9.53	.125	3.18	.625	15.88	25, 50, 100
APST-0500-0750	.500	12.70	.125	3.18	.750	19.05	25, 50, 100
APST-0625-0750	.625	15.88	.063	1.59	.750	19.05	25, 50, 100
APST-0750-1000	.750	19.05	.125	3.18	1.000	25.40	25, 50, 100
APST-0875-1000	.875	22.23	.063	1.59	1.000	25.40	25, 50, 100
APST-1000-1063	1.000	25.40	.031	.79	1.063	27.00	25, 50, 100
APST-1000-1250	1.000	25.40	.125	3.18	1.250	31.75	25, 50, 100

Purity in Fluid Flow SystemsSM



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145 James Way
Southampton, PA 18966 U.S.A.



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